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NEWS
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                ChemPort single article sales feature unavailable
NEWS 3
                CAS REGISTRY Source of Registration (SR) searching
        JUN 01
                enhanced on STN
NEWS 4
        JUN 26
                NUTRACEUT and PHARMAML no longer updated
NEWS
        JUN 29
                IMSCOPROFILE now reloaded monthly
        JUN 29
NEWS 6
                EPFULL adds Simultaneous Left and Right Truncation
                 (SLART) to AB, MCLM, and TI fields
NEWS 7 JUL 09
                PATDPAFULL adds Simultaneous Left and Right
                Truncation (SLART) to AB, CLM, MCLM, and TI fields
        JUL 14 USGENE enhances coverage of patent sequence location
NEWS 8
                 (PSL) data
NEWS 9 JUL 27 CA/CAplus enhanced with new citing references
NEWS 10
        JUL 16 GBFULL adds patent backfile data to 1855
NEWS 11
        JUL 21
                USGENE adds bibliographic and sequence information
NEWS 12 JUL 28
                EPFULL adds first-page images and applicant-cited
                references
NEWS 13
        JUL 28
                INPADOCDB and INPAFAMDB add Russian legal status data
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        AUG 17
                CAS REGISTRY, the Global Standard for Chemical
                Research, Approaches 50 Millionth Registration
                Milestone
NEWS 17 AUG 18 COMPENDEX indexing changed for the Corporate Source
                 (CS) field
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NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4, AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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ENTRY SESSION
0.22 0.22

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STRUCTURE FILE UPDATES: 17 AUG 2009 HIGHEST RN 1174495-28-3 DICTIONARY FILE UPDATES: 17 AUG 2009 HIGHEST RN 1174495-28-3

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

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http://www.cas.org/support/stngen/stndoc/properties.html

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1-2 4-5 5-6 5-21 8-9 11-12 14-15 15-16 15-22 18-19

Match level:

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

 \Rightarrow s 11 sss sam

SAMPLE SEARCH INITIATED 13:36:07 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -421 TO ITERATE

100.0% PROCESSED 421 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

7189 TO 9651 PROJECTED ITERATIONS:

PROJECTED ANSWERS: O TO

L20 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 13:37:54 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED -

100.0% PROCESSED 7246 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

0 SEA SSS FUL L1 L3

=>

Uploading C:\Program Files\STNEXP\Queries\10567430clm58b.str

chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

chain bonds :

 $1-2 \quad 2-3 \quad 3-4 \quad 4-5 \quad 4-15 \quad 5-6 \quad 5-16 \quad 6-19 \quad 7-8 \quad 8-9 \quad 9-10 \quad 10-11 \quad 10-17 \quad 11-12$ 11-18 12-13 13-14 19-20 20-21 21-22 22-23

exact/norm bonds : 2-3 3-4 4-15 6-19 7-8 8-9 11-12 11-18 12-13 19-20 21-22 22-23 exact bonds :

1-2 4-5 5-6 5-16 9-10 10-11 10-17 13-14 20-21

Match level:

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS

L4 STRUCTURE UPLOADED

=> d 14

L4 HAS NO ANSWERS L4 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT * Structure attributes must be viewed using STN Express query preparation.

=> s 14 sss sam
SAMPLE SEARCH INITIATED 13:46:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 421 TO ITERATE

100.0% PROCESSED 421 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 7189 TO 9651
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s 14 sss full FULL SEARCH INITIATED 13:46:29 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 7246 TO ITERATE

100.0% PROCESSED 7246 ITERATIONS 4 ANSWERS SEARCH TIME: 00.00.01

L6 4 SEA SSS FUL L4

=> d scan

L6 4 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester, homopolymer

MF (C18 H30 O8)x

CI PMS

CM 1

PAGE 1-B

- OEt

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 380.40 380.62

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:47:25 ON 18 AUG 2009
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FILE COVERS 1907 - 18 Aug 2009 VOL 151 ISS 8

FILE LAST UPDATED: 17 Aug 2009 (20090817/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

L7 3 L6

=> d ibib ti abs hitstr 16 1-3
YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> d ibib ti abs hitstr 17 1-3

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1012782 CAPLUS

DOCUMENT NUMBER: 149:269595

TITLE: Electron beam-curable composition and producing cured

coating, ink or adhesive

INVENTOR(S):
Kunita, Kazuto

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan SOURCE: U.S. Pat. Appl. Publ., 32pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| US 20080200581 | A1 | 20080821 | US 2008-27648 | 20080207 |
| JP 2008201889 | A | 20080904 | JP 2007-39379 | 20070220 |
| PRIORITY APPLN. INFO.: | | | JP 2007-39379 A | 20070220 |

TI Electron beam-curable composition and producing cured coating, ink or adhesive

AB Producing an electron beam-cured coating includes forming on a substrate a layer of a curable composition that includes ≥1 compound CH2:C(Q1)CARbRaX1 (I) and a step of curing the layer of the curable composition by irradiating with an electron beam. In I, Q1 = cyano group or -COX2 group, X1 = H, organic residue, or polymer chain bonded to C atom CA via a heteroatom, or halogen, X2 = H, organic residue, or polymer chain bonded to the carbonyl group via a heteroatom, or halogen, Ra and Rb = H, halogen, cyano group, or an organic residue, and X1 and X2, Ra and Rb, and X1 and Ra or Rb may be bonded to each other to form a cyclic structure. An example curable composition contained F 177 surfactant 0.03, cyclohexanone 20, and CH2:C(COX2)CH2X1 (X2 = OEt; X1 = OCH2CH2OCOMe) 10 parts.

IT 1047993-80-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(electron beam-curable composition with good adhesion to PET substrate)

RN 1047993-80-5 CAPLUS

CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester, homopolymer (CA INDEX NAME)

CM 1

CRN 896113-18-1 CMF C18 H30 O8

- OEt

L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:673215 CAPLUS

DOCUMENT NUMBER: 145:113448

TITLE: Radiation-curable ink-jet inks containing

ethylenically polymerizable crosslinking agents with

excellent storage stability and sensitivity,

lithographic plates using them, and their manufacture

INVENTOR(S): Sugai, Shoji; Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|---------|--------------|-------------------|---------------|
| | | | | |
| JP 2006182990 | A | 20060713 | JP 2004-380665 | 20041228 |
| PRIORITY APPLN. INFO.: | | | JP 2004-380665 | 20041228 |
| TI Radiation-curable | ink-iet | inks contain | ing ethylenically | nolymerizable |

II Radiation-curable ink-jet inks containing ethylenically polymerizable crosslinking agents with excellent storage stability and sensitivity, lithographic plates using them, and their manufacture

AB The inks contain polymerizable compds., colorants, and ≥1 crosslinking agents selected from those bearing 2 ethylenically polymerizable groups and those bearing ≥3 ethylenically polymerizable groups, thus giving wear-resistant hydrophobic images on hydrophilic supports without a development process.

IT 896113-18-1

RL: TEM (Technical or engineered material use); USES (Uses) (storage-stable radiation-curable ink-jet inks containing heteromethacrylic crosslinking agents for lithog. plates with good wear resistant)

RN 896113-18-1 CAPLUS

CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester (CA INDEX NAME)

PAGE 1-B

— OEt

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:138005 CAPLUS

DOCUMENT NUMBER: 140:375551

TITLE: Synthesis and photopolymerizations of new

hydroxyl-containing dimethacrylate crosslinkers

AUTHOR(S): Avci, Duygu; Mathias, Lon J.

CORPORATE SOURCE: Department of Chemistry, Bogazici University,

Istanbul, 34342, Turk.

SOURCE: Polymer (2004), 45(6), 1763-1769 CODEN: POLMAG; ISSN: 0032-3861

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

TI Synthesis and photopolymerizations of new hydroxyl-containing dimethacrylate crosslinkers

AΒ Two new hydroxyl-containing di(meth)acrylate monomers were synthesized from the reaction of Me α -chloromethylacrylate (MCMA) and of Et lpha-chloromethylacrylate (ECMA) with glycerol. The monomers were obtained as mixts. of two isomers in different ratios and in combination with the analogous trimethacrylate monomers. Each monomer was isolated by column chromatog. The photopolymn. of these isomer mixts. and the trimethacrylate monomers was investigated individually by photodifferential scanning calorimetry (photoDSC) at room temperature using 2,2'-dimethoxy-2-phenylacetophenone (DMPA) as a photoinitiator. The effect of hydrogen bonding on the rates of polymns. and conversions was examined The results obtained for the synthesized monomers were compared to the values obtained for com. monomers. The hydroxyl-containing dimethacrylates polymerize much faster and to considerably higher conversion than the trimethacrylate monomers. The maximum rates of polymerization

of the hydroxyl-containing monomers were higher than that of hexanediol dimethacrylate (HDDMA), comparable to glycerol dimethacrylate and lower than hexanediol diacrylate (HDDA) and 3-(acryloyloxy)-2-hydroxypropyl methacrylate (AHM).

IT 684213-81-8

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative) (in synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-81-8 CAPLUS

CN 2-Propenoic acid, 2,2',2''-[(1,2,3-propanetriyl)tris(oxymethylene)]tris-, triethyl ester (9CI) (CA INDEX NAME)

IT 684213-88-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-88-5 CAPLUS

CN 2-Propenoic acid, 2,2',2''-[1,2,3-propanetriyltris(oxymethylene)]tris-, triethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 684213-81-8 CMF C21 H32 O9

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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http://www.cas.org/support/stngen/stndoc/properties.html

=>

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chain nodes :

 $1 \quad 2 \quad 3 \quad 4 \quad 5 \quad 6 \quad 7 \quad 8 \quad 9 \quad 10 \quad 11 \quad 12 \quad 13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19 \quad 20 \quad 21$

chain bonds :

 $1-2 \quad 2-3 \quad 3-4 \quad 3-13 \quad 4-5 \quad 4-14 \quad 5-17 \quad 6-7 \quad 7-8 \quad 8-9 \quad 9-10 \quad 9-15 \quad 10-11 \quad 10-16$

11-12 17-18 18-19 19-20 20-21

exact/norm bonds :

 $1-2 \quad 2-3 \quad 3-13 \quad 5-17 \quad 6-7 \quad 7-8 \quad 10-11 \quad 10-16 \quad 11-12 \quad 17-18 \quad 19-20 \quad 20-21$

exact bonds :

3-4 4-5 4-14 8-9 9-10 9-15 18-19

Match level:

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR

Structure attributes must be viewed using STN Express query preparation.

=> s 18 sss full

FULL SEARCH INITIATED 13:53:41 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 7246 TO ITERATE

100.0% PROCESSED 7246 ITERATIONS 13 ANSWERS

SEARCH TIME: 00.00.01

13 SEA SSS FUL L8 L9

=> file caplus

COST IN U.S. DOLLARS SINCE FILE TOTAL

SESSION ENTRY

FULL ESTIMATED COST 186.36 588.40

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL
ENTRY SESSION

CA SUBSCRIBER PRICE

0.00 -2.46

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FILE COVERS 1907 - 18 Aug 2009 VOL 151 ISS 8

FILE LAST UPDATED: 17 Aug 2009 (20090817/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate substance identification.

The ALL, BIB, MAX, and STD display formats in the CA/CAplus family of databases have been updated to include new citing references information. This enhancement may impact record import into database management software. For additional information, refer to NEWS 9.

=> s 19

=> d l10 ibib ti abs hitstr 1-6

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2008:1012782 CAPLUS

DOCUMENT NUMBER: 149:269595

TITLE: Electron beam-curable composition and producing cured

coating, ink or adhesive

INVENTOR(S):
Kunita, Kazuto

PATENT ASSIGNEE(S): Fujifilm Corporation, Japan SOURCE: U.S. Pat. Appl. Publ., 32pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| US 20080200581 | A1 | 20080821 | US 2008-27648 | 20080207 |
| JP 2008201889 | A | 20080904 | JP 2007-39379 | 20070220 |
| PRIORITY APPLN. INFO.: | | | JP 2007-39379 A | 20070220 |
| m-r | | 1 . 1 | | |

II Electron beam-curable composition and producing cured coating, ink or adhesive

AB Producing an electron beam-cured coating includes forming on a substrate a layer of a curable composition that includes ≥ 1 compound CH2:C(Q1)CARbRaX1 (I) and a step of curing the layer of the curable composition by irradiating with an electron beam. In I, Q1 = cyano group or -COX2 group, X1 = H, organic residue, or polymer chain bonded to C atom CA via a heteroatom, or halogen, X2 = H, organic residue, or polymer chain bonded to the carbonyl group via a heteroatom, or halogen, Ra and Rb = H, halogen, cyano group, or an organic residue, and X1 and X2, Ra and Rb, and X1 and Ra or Rb may be bonded to each other to form a cyclic structure. An example curable composition contained F 177 surfactant 0.03, cyclohexanone 20, and CH2:C(COX2)CH2X1 (X2 = OEt; X1 = OCH2CH2OCOMe) 10 parts.

IT 1047993-80-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

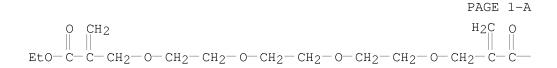
(electron beam-curable composition with good adhesion to PET substrate) 1047993-80-5 CAPLUS

CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester, homopolymer (CA INDEX NAME)

CM 1

RN

CRN 896113-18-1 CMF C18 H30 O8



PAGE 1-B

- OEt

L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:673215 CAPLUS

DOCUMENT NUMBER: 145:113448

TITLE: Radiation-curable ink-jet inks containing

ethylenically polymerizable crosslinking agents with

excellent storage stability and sensitivity,

lithographic plates using them, and their manufacture

INVENTOR(S): Sugai, Shoji; Kunita, Kazuto
PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 44 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| JP 2006182990 | A | 20060713 | JP 2004-380665 | 20041228 |
| PRIORITY APPLN. INFO.: | | | JP 2004-380665 | 20041228 |
| | | | | |

TI Radiation-curable ink-jet inks containing ethylenically polymerizable crosslinking agents with excellent storage stability and sensitivity, lithographic plates using them, and their manufacture

AB The inks contain polymerizable compds., colorants, and ≥1 crosslinking agents selected from those bearing 2 ethylenically polymerizable groups and those bearing ≥3 ethylenically polymerizable groups, thus giving wear-resistant hydrophobic images on hydrophilic supports without a development process.

IT 896113-18-1

RL: TEM (Technical or engineered material use); USES (Uses)
(storage-stable radiation-curable ink-jet inks containing heteromethacrylic

RN 896113-18-1 CAPLUS

CN 4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester (CA INDEX NAME)

crosslinking agents for lithog. plates with good wear resistant)

PAGE 1-B

- OEt

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:801227 CAPLUS

DOCUMENT NUMBER: 141:304331

TITLE: Photopolymerizable compositions with excellent laser

sensitivity and storage stability and multifunctional

crosslinker compounds for them

INVENTOR(S):
Kunida, Kazuto

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 94 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----------------|--------|--------------|-----------------------|-------------|
| | | | | |
| JP 2004269569 | А | 20040930 | JP 2003-58582 | 20030305 |
| JP 4070637 | B2 | 20080402 | | |
| EP 1466893 | A1 | 20041013 | EP 2004-5296 | 20040305 |
| R: AT, BE, CH, | DE, DK | , ES, FR, GB | , GR, IT, LI, LU, NL, | SE, MC, PT, |

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK US 20050008967 A1 20050113 US 2004-793212 20040305 US 7041711 B2 20060509

PRIORITY APPLN. INFO.: JP 2003-58582 A 20030305

TI Photopolymerizable compositions with excellent laser sensitivity and storage stability and multifunctional crosslinker compounds for them

AB The compns. contain (CH2:CZ1CO2R1NHCO2)mR2(OCOCZ2:CH2)n and (CH2:CZ1CO2R1NHCO2)mR2[CO2CRaC(OCX2):CH2]n [Z1 = H, Me; Z2 = H, Me, CHRbX1; X1,2 = (un)substituted oxy, amino, or thio; Ra,b H, hydrocarbyl; R1 = (O-containing) aliphatic hydrocarbon group; R2 = (O-containing) aliphatic hydrocarbon group; m, n = 1-5] and preferably alkali-soluble polyurethanes, thus giving lithog. plates for direct platemaking by laser exposure with good wear resistance.

IT 765292-19-1P 765292-21-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(photopolymerizable compns. with good laser sensitivity and storage stability for lithog. plates with good wear resistance)

RN 765292-19-1 CAPLUS

CN Butanedioic acid, 2,3-bis[[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]-,
bis[2-(methoxycarbonyl)-2-propenyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 765292-18-0 CMF C28 H36 N2 O16

RN 765292-21-5 CAPLUS

CN Butanedioic acid, [[[[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]amino]carbonyl]oxy]-,
bis[2-(methoxycarbonyl)-2-propenyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 765292-20-4 CMF C21 H27 N O12

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L10 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:138005 CAPLUS

DOCUMENT NUMBER: 140:375551

TITLE: Synthesis and photopolymerizations of new

hydroxyl-containing dimethacrylate crosslinkers

AUTHOR(S): Avci, Duygu; Mathias, Lon J.

CORPORATE SOURCE: Department of Chemistry, Bogazici University,

Istanbul, 34342, Turk.

SOURCE: Polymer (2004), 45(6), 1763-1769 CODEN: POLMAG; ISSN: 0032-3861

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

TI Synthesis and photopolymerizations of new hydroxyl-containing dimethacrylate crosslinkers

AB Two new hydroxyl-containing di(meth)acrylate monomers were synthesized from the reaction of Me α -chloromethylacrylate (MCMA) and of Et α -chloromethylacrylate (ECMA) with glycerol. The monomers were obtained as mixts, of two isomers in different ratios and in combination with the analogous trimethacrylate monomers. Each monomer was isolated by column chromatog. The photopolymn, of these isomer mixts, and the trimethacrylate monomers was investigated individually by photodifferential scanning calorimetry (photoDSC) at room temperature using 2,2'-dimethoxy-2-phenylacetophenone (DMPA) as a photoinitiator. The effect of hydrogen bonding on the rates of polymns, and conversions was examined. The results obtained for the synthesized monomers were compared to the values obtained for com, monomers. The hydroxyl-containing dimethacrylates polymerize much faster and to considerably higher conversion than the trimethacrylate monomers. The maximum rates of

of the hydroxyl-containing monomers were higher than that of hexanediol dimethacrylate (HDDMA), comparable to glycerol dimethacrylate and lower than hexanediol diacrylate (HDDA) and 3-(acryloyloxy)-2-hydroxypropyl methacrylate (AHM).

IT 684213-81-8 684213-82-9

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative) (in synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-81-8 CAPLUS

polymerization

CN 2-Propenoic acid, 2,2',2''-[(1,2,3-propanetriyl)tris(oxymethylene)]tris-, triethyl ester (9CI) (CA INDEX NAME)

RN 684213-82-9 CAPLUS

CN 2-Propenoic acid, 2,2',2''-[1,2,3-propanetriyltris(oxymethylene)]tris-, trimethyl ester (9CI) (CA INDEX NAME)

IT 684213-87-4P 684213-88-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis and photopolymn. of hydroxyl-containing dimethacrylate crosslinkers)

RN 684213-87-4 CAPLUS

CN 2-Propenoic acid, 2,2',2''-[1,2,3-propanetriyltris(oxymethylene)]tris-, trimethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 684213-82-9 CMF C18 H26 O9

RN 684213-88-5 CAPLUS

CN 2-Propenoic acid, 2,2',2''-[1,2,3-propanetriyltris(oxymethylene)]tris-, triethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 684213-81-8 CMF C21 H32 O9

OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD

(7 CITINGS)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:173063 CAPLUS

DOCUMENT NUMBER: 138:229268

TITLE: Plate-making method of printing plate

INVENTOR(S):
Kunita, Kazuto

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 148 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT I | . O <i>r</i> | KIND | DATE | APPLICATION NO. | | DATE |
|--------------|--------------|--------|------------|---------------------|-----|-------------|
| EP 1288 | 720 | A1 | 20030305 | EP 2002-19103 | | 20020829 |
| R: | AT, BE, CH, | DE, DE | K, ES, FR, | GB, GR, IT, LI, LU, | NL, | SE, MC, PT, |
| | IE, SI, LT, | LV, F | I, RO, MK, | CY, AL, TR, BG, CZ, | EE, | SK |
| JP 2003 | 066601 | A | 20030305 | JP 2001-259725 | | 20010829 |
| JP 4235 | 375 | В2 | 20090311 | | | |
| JP 2003 | 064130 | A | 20030305 | JP 2001-259726 | | 20010829 |
| US 2003 | 0190554 | A1 | 20031009 | US 2002-230088 | | 20020829 |
| US 6875 | 557 | В2 | 20050405 | | | |
| PRIORITY APP | LN. INFO.: | | | JP 2001-259725 | Z | A 20010829 |
| | | | | JP 2001-259726 | Ā | A 20010829 |

TI Plate-making method of printing plate

AB A plate-making method of a printing plate comprises exposing a printing plate precursor having a photosensitive layer comprising a photopolymerizable composition containing (1) a crosslinking agent having two ethylenic polymerizable groups and (2) a crosslinking agent having three or more ethylenic polymerizable groups, and development processing the exposed printing plate precursor with an alkali developer having a pH of ≤ 12.5.

IT 500769-95-9

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(photopolymerizable composition for plate-making method of printing plate containing)

RN 500769-95-9 CAPLUS

CN 4,7,9,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-3,8,12-trioxo-, dimethyl ester, polymer with 2-[[3-[(1-oxo-2-propenyl)oxy]-2,2-bis[[(1-oxo-2-propenyl)oxy]methyl]propoxy]methyl]-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 500769-94-8

CM 2

CRN 29570-58-9 CMF C28 H34 O13

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2000:484355 CAPLUS

DOCUMENT NUMBER: 133:112451

TITLE: Heat development photosensitive material for printing

platemaking

INVENTOR(S): Muramatsu, Yasuhiko PATENT ASSIGNEE(S): Konica Co., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 47 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| | | | | |
| JP 2000199936 | A | 20000718 | JP 1999-1159 | 19990106 |
| PRIORITY APPLN. INFO.: | | | JP 1999-1159 | 19990106 |

TI Heat development photosensitive material for printing platemaking

AB The title photosensitive material contains, on a support, an organic Ag salt, photosensitive Ag halide grains, a reducing agent, and either (1) a compound having ≥2 cyclic acid anhydride groups, (2) a compound having ≥2 acetal groups, or (3) a compound having ≥2 2-substituted acrylate groups or (4) ≥1 carbodiimide compound and ≥1 acid anhydride. The material shows improved film strength and storage stability and high contrast even upon storage for a long time.

IT 283595-16-4

RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photothermog. material containing acid anhydride, acetal compound, acrylate,

or carbodiimide)

RN 283595-16-4 CAPLUS

CN Propanedioic acid, methylene-, oxydi-2,1-ethanediyl dimethyl ester (9CI) (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

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L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

896113-18-1 REGISTRY

4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, 1,16-diethyl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

4,7,10,13-Tetraoxahexadecanedioic acid, 2,15-bis(methylene)-, diethyl ester (9CI)

C18 H30 O8 MF

CI COM

SR CA

STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent RL.P Roles from patents: USES (Uses)

PAGE 1-B

- OEt

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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